

FEATURES :

- Universal Input 90~264VAC
- High Efficiency at 94% Typical
- Protection: Short Circuit /Overload/Over voltage/Over temperature
- Built-in active PFC function
- 3"x 2" miniature size
- No load power consumption<0.3W
- 2 Years Warranty

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Voltage	Output Current	Ripple & Noise	Efficiency	Output Power(W)
	V	MAX	mVp-p(Max) (note)	%(TYP)	Rated
GB100A-S12	12	8.3A	100	91	100
GB100A-S15	15	6.6A	120	92	100
GB100A-S24	24	4.16A	150	93	100
GB100A-S27	27	3.7A	150	94	100
GB100A-S48	48	2.08A	200	93.5	100

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated input voltage	Io nom		100-240		Vac
	Io nom	90		264	Vac
Voltage Range	Io nom	127		370	Vdc
		47	50/60	63	Hz
Frequency					
Inrush Current	At 115Vac			30	A
	At 230Vac			60	A
Input Over-Current Protection	VDE/UL/CCC FUSE 3.15A/250V				
Power Factor	PF> 0.93 / 230Vac PF> 0.98 /115Vac at full load				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom			±2	%
Minimum Load	Vi nom	0			
Line Regulation	Io nom, Vi min...Vi max		±0.5		%
Load Regulation	Vi nom, Io min...Io nom		±1.0		%

Protection	Overload	Above 110% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed
	Over Voltage	110%-150% rated output Voltage Protection type: Shut off o/p voltage, re-power on to recover
	Short circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed
	Over temperature	Protection type: Shut off o/p voltage, re-power on to recover

Note :
Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47uf paralleled with a high-frequency 0.47uf capacitor across each output by full load.

YUAN DEAN SCIENTIFIC



Preliminary

AC-DC Converter

GB100A SERIES

100Watt

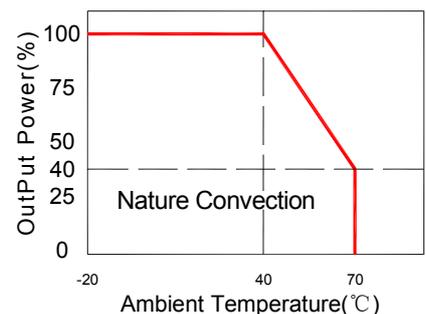
3KVac Isolated

Single Output

3"x 2" Open Frame



Derating Curve



General Specifications

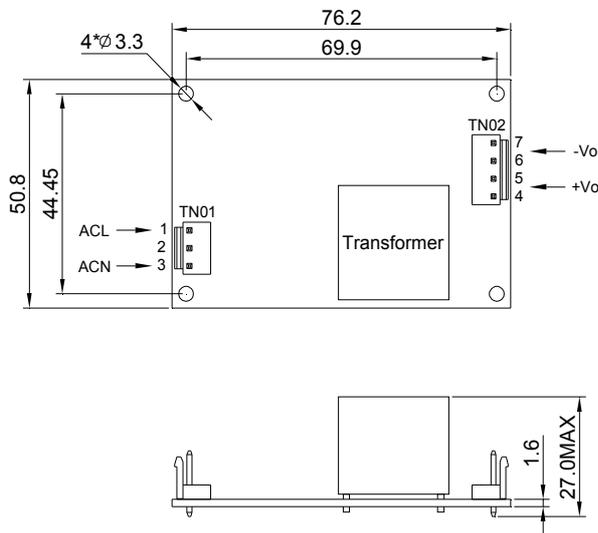
Parameters	Conditions	Min	Typ	Max	Units
MTBF	MIL-HDBK-217F(25°C)	100,000			Hrs
	Input To Output	3000V AC 5mA/5Secs			
Isolation Voltage	Input To Ground	2000V AC 5mA/5Secs			
	Output To Ground	500V AC 5mA/5Secs			
Size		76.2x50.8x27.0MAX			mm
Weight			125		g
Operating Temperature	With Derating	-20		+70	°C
Storage Temperature		-45		+85	°C

Part Number

GB100A - S 12
 A B C

A : Series
 B : Single Output
 C : Output Voltage

Markings and Dimensions



UNIT: mm, unless otherwise specified, all tolerances are ±0.50

Notes:

- 1. Input connector mates with JST housing B3P-VH
- 2. Output connector mates with JST housing B4P-VH

TN01	Model
PIN	Single Output
1	ACL
2	No PIN
3	ACN
TN02	
4	+Vo
5	+Vo
6	-Vo
7	-Vo

Output Derating VS Input Voltage

